

## Synthesis Analysis Of Aspirin Lab Answers

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### Synthesis Analysis Of Aspirin Lab

The two starting materials in the aspirin synthesis reaction were acetic anhydride and salicylic acid. In the reaction between acetic anhydride and water, a gas was released that gave off a smell similar to that of vinegar. This gas was acetic acid; an end product in the aspirin synthesis reaction, thus the NMR spectrum of acetic acid was analyzed.

### Aspirin Synthesis Lab Analysis - Odinity

The search for a milder form of this pain reliever led to the successful synthesis of acetylsalicylic acid by the German chemist Felix Hoffmann in 1893. Your two primary objectives in this experiment will be to synthesize and analyze aspirin. There is more than one way to synthesize aspirin; in this experiment, you will react acetic anhydride with salicylic acid in the presence of phosphoric acid (which acts as a catalyst).

### The Synthesis and Analysis of Aspirin - Vernier

primarily used to treat pain as well as to avert cardiovascular disease. The purpose of this lab is to synthesize and characterize high purity aspirin. The aspirin synthesized in this experiment will be crystallized from solution. Crystallization will be induced by scratching the glass beaker to create nuclei around which aspirin may crystallize.

### Synthesis and Analysis of Acetyl Salicylic Acid

Synthesis of Aspirin By: Jon Torre. Purpose: To determine which of four catalysts yields the fastest reaction rate in the acetylation of salicylic acid (1) to form acetylsalicylic acid (2). Reactions: Procedure and Results: Aspirin Synthesis Tap water was heated on a steam bath in a 250 mL beaker. The temperature of an alcohol thermometer was equilibrated in a beaker of room temperature tap water.

### Synthesis of Aspirin - Lab Report and Analysis - Odinity

1. Label three test tubes; place a few crystals of salicylic acid into test tube #1, a small sample of your aspirin into test tube #2, and a small sample of crushed commercial aspirin into #3. Add 5 mL of deionized water to each test tube and swirl to dissolve the crystals. 2.

### Chemistry 51 Experiment 11 Synthesis and Analysis of Aspirin

Prepare the synthesized aspirin sample for testing. Complete this step quickly; Measure approx. 0.04g of synthesised aspirin and transfer it to a 25ml beaker. Record the mass of aspirin weighed to the nearest 0.001g. Add 1ml of Ethanol to the beaker of aspirin. Swirl to dissolve. Add 15ml of distilled water to the beaker. Mix the solution.

### Synthesis of Aspirin Lab Report - AcademicScope

The synthesis reaction of aspirin is shown below: Since acetic acid is very soluble in water, it is easily separated from the aspirin product. The aspirin isolated in this step is the "crude product". A "purified product" can be obtained through recrystallization of the crude product in hot ethanol.

### Experiment 5 - Synthesis of Aspirin

SYNTHESIS OF ASPIRIN (acetylsalicylic acid) Place 2.0 g (0.015 mole) of salicylic acid in a 125-mL Erlenmeyer flask. Add 5 mL (0.05 mole) of acetic anhydride, followed by 5 drops of conc. H<sub>2</sub>SO<sub>4</sub> (use a dropper, H<sub>2</sub>SO<sub>4</sub> is highly corrosive) and swirl the flask gently until the salicylic acid dissolves.

### 1: Synthesis of Aspirin (Experiment) - Chemistry LibreTexts

Mass of aspirin synthesized (g)= (3.159 g)-(.1300 g) Mass of aspirin synthesized (g)= 3.029 Mass of purified aspirin product (g)= (Mass of purified aspirin and filter paper)- (mass of filter paper) (Eq.3) Mass of purified aspirin product (g)= (2.299 g)- (.1300 g) Mass of purified aspirin product (g)=2.169 Table 1: Synthesis of Aspirin Data

### Esterification reaction: the synthesis and purification of ...

-Synthesis of ASA from SA results in the formation of an ester functional group (esterification)-Create a suspension of SA in an excess of acetic anhydride (reactant and solvent)-The H<sup>+</sup> in H<sub>3</sub>PO<sub>4</sub> acts as a catalyst. When this is put the solid SA disappears and ASA forms but remains dissolved-Excess acetic anhydride must be hydrolyzed to acetic acid.

### Lab #3 and 4: Aspirin Synthesis and Analysis Flashcards ...

SYNTHESIS AND CHARACTERISTICS OF ASPIRIN- ACETYLSALICYLIC ACID Summary: The lab experiment was divided into parts and the synthesis of the aspirin occurred during the first week. Using 4.032g of salicylic acid 8.0mL of acetic anhydride on a hot bath the reaction was speeded up by the use of a catalyst phosphoric acid.

### Synthesis of Aspirin Lab Report - 2989 Words | Bartleby

The purpose of this experiment was to make aspirin via esterification, and to determine the percent yield we as a lab group made. Aspirin is an organic ester. An ester is a compound that is formed when an acid reacts with an alcohol, -OH group. Acetic anhydride reacts with Salicylic acid to yield the ester (aspirin).

### Preparation of Aspirin Lab Report - AcademicScope

Synthesize a sample of acetylsalicylic acid (aspirin). Calculate the percent yield of your synthesis. Measure the melting temperature of your aspirin sample. Conduct a colorimetric analysis of your aspirin sample.

### The Synthesis and Analysis of Aspirin - Vernier

The overall objectives of this experiment were to synthesize aspirin, to perform a crude purity test on said aspirin, to standardize and prepare solutions of both NaOH and HCL, and to qualitatively determine the purity of the aspirin by finding the percentage of acetylsalicylic acid in the aspirin. All objectives were performed successfully.

### Aspirin Synthesis Lab Report by Alissa Lockwood

Synthesis of Aspirin Lab Report The goal of this experiment was to synthesize aspirin. In this experiment aspirin, also known as acetylsalicylic acid, was synthesized from salicylic acid and acetic anhydride. In the reaction the hydroxyl group on the benzene ring in salicylic acid reacted with acetic anhydride to form an ester functional group.

### Synthesis of Aspirin Lab Report Free Essay Sample

Part of NCSSM CORE collection: This video shows the synthesis of aspirin. <http://www.dlt.ncssm.edu> Please attribute this work as being created by the North C...

### Synthesis of Aspirin Lab - YouTube

The main objective of the synthesis of aspirin lab was so produce aspirin (acetylsalicylic acid) through the reaction of salicylic acid and acetic

anhydride. The methods used included recrystallization and scratching to produce a precipitate, which was then filtered to remove any excess moisture.

**Essay Synthesis of Aspirin Example | Graduateway**

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